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	Application No.	Applicant(s)
	10/667,603	CHIDAMBARRAO ET AL.
Notice of Allowability	Examiner	Art Unit
	Scott B. Geyer	2829
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Report of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. $igspace$ This communication is responsive to <u>an election, dated 10</u>	-7-04 .	
2. ⊠ The allowed claim(s) is/are <u>1-16</u> .		
3. \boxtimes The drawings filed on <u>23 September 2003</u> are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which gives the including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date	e been received. e been received in Applicate cuments have been received of this communication to factor of this application. Intelligible the attached Eles reason(s) why the oather stop submitted. In the submitted of the submitted of the submitted. In the submitted of the submitted of the submitted of the submitted.	ed in this national stage application from the ele a reply complying with the requirements XAMINER'S AMENDMENT or NOTICE OF or declaration is deficient. ew (PTO-948) attached
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet.	1.84(c)) should be written or the header according to 37	the drawings in the front (not the back) of CFR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MA FOR THE DEPOSIT OF E	TERIAL must be submitted. Note the BIOLOGICAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of	Informal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
3. ⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/ Paper No./Mail Date 0903		o./Mail Date 's Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		's Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	<u>_</u> .

DETAILED ACTION

Page 2

Election/Restrictions

 Applicant's election without traverse of claims 1-16 in the reply filed on October 7th, 2004 is acknowledged.

Information Disclosure Statement

2. The references cited within the IDS, submitted on September 23, 2003 have been considered.

Drawings

3. The drawings submitted by the applicant on September 23, 2003 are acceptable.

Allowable Subject Matter

- 4. Claims 1-16 are allowed.
- **5.** The following is an examiner's statement of reasons for allowance. The prior art of record and to the examiner's knowledge does not teach or render obvious, at least to the skilled artisan, the instant invention regarding:

the method of forming a semiconductor device characterized by the steps of forming a compressively strained SiGe layer on a silicon substrate, forming uniformly distributed interstitial dislocation loops in the SiGe layer by ion implantation and

Art Unit: 2829

performing annealing to form uniformly distributed misfit dislocations, as recited in independent claim 1;

the method of forming a semiconductor device characterized by the steps of forming a compressively strained SiGe layer on a silicon substrate, forming uniformly distributed end-of-range damage to the SiGe layer through ion implantation and annealing to form uniformly distributed misfit dislocations, as recited in independent claim 12.

Claims 2-11 are dependent upon claim 1; claims 13-16 are dependent upon claim 12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. The following references are cited as being particularly related to the applicant's invention: Shchukin et al. (6,784,074), Wu et al. (6,689,211 and 6,521,041), Christiansen et al. (6,515,335), Legoues et al. (5,810,924) and Laderman et al. (5,084,411).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott B. Geyer whose telephone number is (571) 272-1958. The examiner can normally be reached on weekdays, between 10:00am -

Application/Control Number: 10/667,603

Art Unit: 2829

Page 4

6:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Tokar can be reached on (571)272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SBG

October 15, 2004

EVAN PERT PRIMARY EXAMINER